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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
11/24/2003	Minoru Kotato	245549US0CONT	9963	
590 11/18/2004		EXAM	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET		WEINER, LAURA S		
A, VA 22314		ART UNIT	PAPER NUMBER	
		1745		
	11/24/2003 590 11/18/2004 VAK, MCCLELLAND, FREET	11/24/2003 Minoru Kotato 590 11/18/2004 VAK, MCCLELLAND, MAIER & NEUSTADT, P.C. FREET	11/24/2003 Minoru Kotato 245549US0CONT 590 11/18/2004 EXAM VAK, MCCLELLAND, MAIER & NEUSTADT, P.C. FREET A, VA 22314 ART UNIT	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/718,711	KOTATO ET AL.	17/4
Office Action Summary	Examiner	Art Unit	
	Laura S Weiner	1745	
The MAILING DATE of this communic Period for Reply			ss
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commur - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply wi Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed	ATION. 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of thir tory period will apply and will expire SIX (6) MON II, by statute, cause the application to become AE or the mailing date of this communication, even if	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this community of the community o	unication.
)⊠ This action is non-final.		
3) Since this application is in condition fo closed in accordance with the practice	r allowance except for formal matt under <i>Ex parte Quayle</i> , 1935 C.D	ers, prosecution as to the me . 11, 453 O.G. 213.	rits is
Disposition of Claims			
4) Claim(s) 1 and 2 is/are pending in the 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction Application Papers 9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a Applicant may not request that any objection	withdrawn from consideration. on and/or election requirement. Examiner.) ☐ accepted or b) ☐ objected to be	by the Examiner.	
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be	e correction is required if the drawing(s	s) is objected to. See 37 CFR 1	121(d). 52.
Priority under 35 U.S.C. § 119	v		
12)⊠ Acknowledgment is made of a claim for a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority do	cuments have been received. cuments have been received in Ap he priority documents have been r Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 11-24-03.	948) Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application (PTO-152)	

Application/Control Number: 10/718,711

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Sekino et al. (6,794,089).

Sekino et al. teaches in column 3, lines 43-53, that the nonaqueous electrolyte secondary battery comprises a case having a wall thickness not larger than 0.3 mm, an electrode group provided in the case and a nonaqueous electrolyte provided in the case. Sekino et al. teaches in column 7, lines 16-35, that the nonaqueous solvent includes ethylene carbonate, propylene carbonate, gamma-butyrolactone, vinylene carbonate and a vinylethylene carbonate, phenylethylene carbonate, etc. The mixing ratio is 15-50% by volume ethylene carbonate, 2-35% by volume propylene carbonate, 30-85% by volume gamma-butyrolactone, is between 0-5% by volume vinylene carbonate.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al. (US 2002/0192565).

Ueda et al. teaches on page 5, a battery comprising a positive electrode, a negative electrode, a separator and a nonaqueous electrolyte. The positive electrode comprises LiCoO2 and the negative electrode comprises graphite. Ueda et al. teaches on page 6, Table 1, that the electrolyte comprises LiPF6 or LiBF4. Ueda et al. teaches on page 10, Example 6, a nonaqueous electrolyte containing gamma-butyrolactone (GBL), vinylene carbonate (VC) and vinylethylene carbonate (VEC), ethylene carbonate (EC) and diethyl carbonate (DEC) at a volume ratio of 67: (2 +1): 20:10.

Ueda et al. does not specifically teach the thickness of the battery casing but it would be within the skill of the ordinary person to adjust the thickness of the battery casing depending on the size, efficiency and cost requirements.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a battery casing comprising a thickness of 0.5 mm or less, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura S Weiner Primary Examiner Art Unit 1745